

**Pamir
2200**

FRICO



Slim air curtain with energy efficient control

Pamir 2200 has a modern and sleek design developed to fit all entrances and door ways in shops, offices and public premises. Its recommended installation height is 2,2 m. The air curtain is available for horizontal installation with wall brackets included. The front is easy to remove, which facilitates installation and allows easy maintenance.

Optimized door protection

In order to generate the best possible door protection in any given condition, the air curtain automatically adjusts the airflow based on outdoor temperature and room temperature.

Intelligent control options

The Pamir series is supplemented with an intelligent control system that allows you to optimize your comfort with minimum effort. Smart and automatic features enable simple set-up and operation for different Frico products groups.

High performance

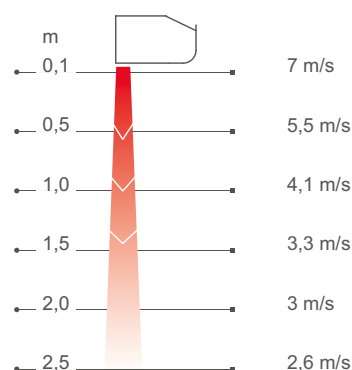
Frico air curtains are developed and manufactured in Sweden. The air curtains are tested in one of the most modern and advanced air and sound laboratories in Europe which means that we can guarantee a high performance product.

Pamir 2200



Electrical heating

Air velocity profile



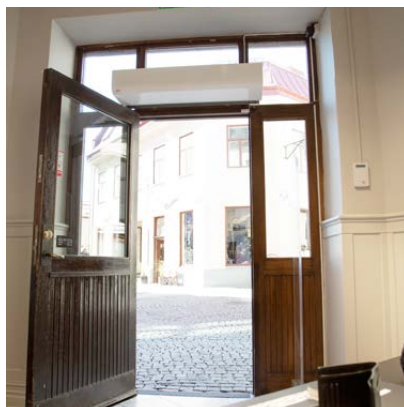
Measurements according to ISO 27327-1. Average values for products in the series.

Pamir 2200

Frico's Thermozone technology optimizes the air curtain



Frico air curtains create an invisible barrier at openings and doors which separates different temperature zones without limiting access for people and vehicles. Thermozone technology creates a highly uniform air barrier with a perfect balance between air volume and air velocity, regardless of whether it is the heat or the cold that you want to keep inside.



Great energy savings

In many premises doors remain open for a significant part of the day, this results in huge losses of expensively heated or cooled air, especially when the temperature difference between outdoor and indoor air is great. With correctly installed air curtains great energy savings can be obtained.

Comfortable indoor climate

Air curtains with Thermozone technology have optimized performance to provide a comfortable indoor climate free from draughts. The air curtain also keeps out emissions and insects.

Low sound level

With Thermozone technology Frico manufactures air curtains with very high airflow performance. This does not just make the air curtain more efficient, but also has other advantages such as extremely low sound levels and reduced turbulence.

Create the optimal solution to suit your specific needs

After you selected the air curtain to suit your specific needs, length 1, 1,5, or 2 m, you assemble your control and accessory options:

Control system

Air curtains Pamir 2200 come with an integrated PC-board and are supplemented with the intelligent control system FC Direct.

Wall or ceiling mounting

The unit can be mounted with included wall brackets or be supplemented with accessories for mounting from the ceiling.



⚡ Electrical heat - PAF2200 E (IP20)

Voltage motor: 230V~

| Item number | Type | Output steps [kW] | Airflow* ¹ [m³/h] | Sound power* ² [dB(A)] | Sound pressure* ³ [dB(A)] | Δt* ⁴ [°C] | Amperage motor [A] | Voltage [V] Amperage [A] (heat) | Length [mm] | Weight [kg] |
|-------------|------------|-------------------|------------------------------|-----------------------------------|--------------------------------------|-----------------------|--------------------|---------------------------------------|-------------|-------------|
| 455955 | PAF2210E08 | 5/8 | 900/1200 | 67 | 42/51 | 27/20 | 0,45 | 400V3N~/11,5 | 1026 | 18 |
| 455956 | PAF2215E12 | 8/12 | 1150/1800 | 67 | 40/52 | 31/20 | 0,5 | 400V3N~/17,3 | 1536 | 28 |
| 455957 | PAF2220E16 | 10/16 | 1800/2400 | 69 | 43/53 | 27/20 | 0,9 | 400V3N~/23,1 | 2026 | 36 |

*¹) Lowest/highest airflow of totally 3 fan steps.

*²) Sound power (L_{WA}) measurements according to ISO 27327-2: 2014, Installation type E.

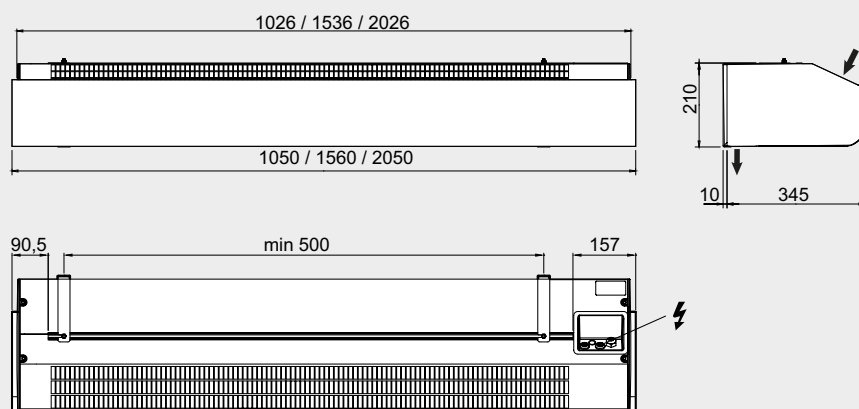
*³) Sound pressure (L_{pA}). Conditions: Distance to the unit 5 metres. Directional factor: 2. Equivalent absorption area: 200 m². At lowest/highest airflow.

*⁴) Δt = temperature rise of passing air at maximum heat output and lowest/highest airflow.

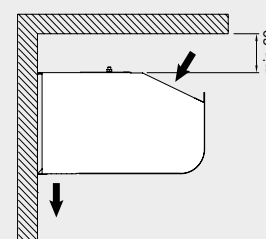
Manufactured in Sweden with a corrosion proof housing made of hot zinc-plate and powder coated steel panels. Front is made of powder coated steel. Colour front: white, RAL 9016. Colour grille, rear section and ends: grey, RAL 7046.

Dimensions

All models

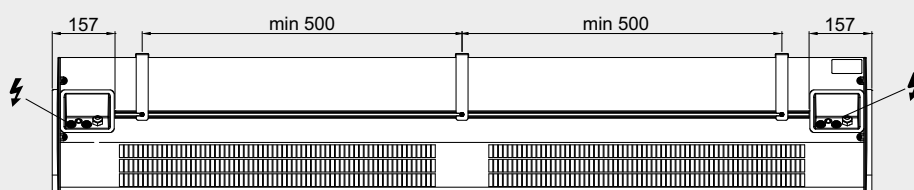


Minimum distances



Minimum distance from outlet to floor for electrically heated units is 1800 mm.

2 metre units





Mounting

The recommended installation height of Pamir 2200 is 2,2 m. The air curtain is installed horizontally with the outlet air grille facing downwards as close to the door as possible. For the protection of wider doorways, several units can be mounted in series alongside each other.

The unit can be mounted with included wall brackets or be supplemented with accessories for mounting from the ceiling.

Connection

The front is easy to remove, which facilitates installation and allows easy maintenance.

The air curtain has an integrated PC board which is connected to the selected external control system FC. The PC board is accessed via cable glands on the top of the unit. Communication and sensor cables are connected to the PC board. The electrical connection is made on the top of the unit. Control (230V~) and power supply for heat (400V3N~) should be connected to a terminal block in the terminal box.

For wiring diagrams and other technical information, please see the manual. Recommended installation height varies depending on the relevant premises. See www.frico.net for further information.

Accessories - mounting



PA2PF, ceiling mounting brackets

Mountings for installing the unit in the ceiling using hanging brackets or threaded bars (not included).



PA34TR, threaded bars

Threaded bars for installing unit on to a ceiling. Length 1 m. Used together with ceiling mounting brackets PA2PF.



PA2P, hanging brackets

Hanging brackets for installing the unit suspended from the ceiling. Length 1 m. The hanging brackets are covered by a white plastic trim to cover the cables. The brackets may be cut to shorter length, if required. Used together with ceiling mounting brackets PA2PF.

| Item number | Type | Used for | Consists of |
|-------------|----------|------------------|-------------|
| 19415 | PA2PF15 | PAF2210, PAF2215 | 4 |
| 19417 | PA2PF20 | PAF2220 | 6 |
| 18056 | PA34TR15 | PAF2210, PAF2215 | 4 |
| 18057 | PA34TR20 | PAF2220 | 6 |
| 19568 | PA2P15 | PAF2210, PAF2215 | 2 |
| 19569 | PA2P20 | PAF2220 | 3 |

Air curtains Pamir 2200 come with an integrated PC-board and are supplemented with the intelligent control system FC Direct. The door contact provides an automatic energy-saving function, as the air curtain becomes active only when the door is open. When the door is closed, it remains on stand-by or runs on a lower fan speed if extra heat is needed. With the calendar function, you can choose periods of comfort and reduced mode.



FC Direct includes:

- FCCF, control panel, built-in temperature sensor
- FCDC, door contact
- FCBC05, communication cable 5 m

Functions

- Door contact
- Calendar function
- Built-in temperature sensor



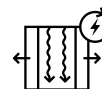
Energy savings with precise control

By receiving and reacting to information about the current room temperature in addition to the air curtain's inlet and outlet temperatures, the right amount of heat is added to avoid overshoots and thus reducing energy consumption.



Easy set-up and operation

The system automatically detects any products or sensors that are connected to it and immediately becomes functional. If anything is removed, a notification is sent out, and the system remains operational according to the new conditions.



Optimized energy consumption with door contact

An easily installed door contact is included in all control levels. This enables the air curtain to become active only when needed and remain on stand-by when the door is closed, thus saving energy.

| Item number | Type | Description | Dimensions |
|-------------|---------------|---------------------------|--------------------|
| 74684 | FCDA | FC Direct control system | 89x89x26 mm (FCCF) |
| 74718 | FCBC05 | Extra communication cable | 5 m |
| 74719 | FCBC10 | Extra communication cable | 10 m |
| 74720 | FCBC25 | Extra communication cable | 25 m |